

**MATHS - IA**  
**PRACTICE PAPER - 5****TOTAL MARKS: 75**  
**TIME: 3hrs.****I. Very short answer type questions****10 × 2 = 20**

1. Find the domain of the real valued function  $f(x) = \sqrt{4x - x^2}$ .
2. If  $f(x) = 2x - 1$ ,  $g(x) = \frac{x+1}{2} \forall x \in \mathbb{R}$ , then find (i)  $(g \circ f)(x)$  (ii)  $(f \circ g)(x)$ .
3. If  $\begin{bmatrix} x-1 & 2 & 5-y \\ 0 & z-1 & 7 \\ 1 & 0 & a-5 \end{bmatrix} = \begin{bmatrix} 1 & 2 & 3 \\ 0 & 4 & 7 \\ 1 & 0 & 0 \end{bmatrix}$ , then find the values of  $x, y, z$  and  $a$ .
4. If  $A = \begin{bmatrix} 0 & 2 & 1 \\ -2 & 0 & -2 \\ -1 & x & 0 \end{bmatrix}$  is a skew symmetric matrix, then find the value of  $x$ .
5. If the vectors  $-3\bar{i} + 4\bar{j} + \lambda\bar{k}$  and  $\mu\bar{i} + 8\bar{j} + 6\bar{k}$  are collinear, then find  $\lambda$  and  $\mu$ .
6. Find the vector equation of the plane passing through the points  $\bar{i} - 2\bar{j} + 5\bar{k}$ ,  $-5\bar{j} - \bar{k}$  and  $-3\bar{i} + 5\bar{j}$ .
7. If  $\bar{a} = 2\bar{i} - 3\bar{j} + 5\bar{k}$  and  $\bar{b} = -\bar{i} + 4\bar{j} + 2\bar{k}$ , then find  $\bar{a} \times \bar{b}$  and unit vector perpendicular to both  $\bar{a}$  and  $\bar{b}$ .
8. Find the value of  $\sin 34^\circ + \cos 64^\circ - \cos 4^\circ$ .
9. Find the maximum and minimum values of  $3 \cos x - 4 \sin x$ .
10. If  $\sinh x = \frac{3}{4}$ , then find  $\cosh 2x$  and  $\sinh 2x$ .

**II. Short answer type questions****5 × 4 = 20**

11. If  $A = \begin{bmatrix} 1 & 2 & 2 \\ 2 & 1 & 2 \\ 2 & 2 & 1 \end{bmatrix}$ , then show that  $A^2 - 4A - 5I = 0$ .
12. If  $\bar{a}, \bar{b}, \bar{c}$  are non-coplanar vector, then prove that the following four points are collinear.  $-\bar{a} + 4\bar{b} - 3\bar{c}$ ,  $3\bar{a} + 2\bar{b} - 5\bar{c}$ ,  $-3\bar{a} + 8\bar{b} - 5\bar{c}$  and  $-3\bar{a} + 2\bar{b} + \bar{c}$ .
13. Find the volume of tetrahedron having the edges  $\bar{i} + \bar{j} + \bar{k}$ ,  $\bar{i} - \bar{j}$  and  $\bar{i} + 2\bar{j} + \bar{k}$ .
14. Prove that  $\cos \frac{2\pi}{7} \cdot \cos \frac{4\pi}{7} \cdot \cos \frac{8\pi}{7} = \frac{1}{8}$ .
15. Solve the equation  $\sqrt{3} \sin \theta - \cos \theta = \sqrt{2}$ .

# Maths 1a Study Material

**Mike Jess**



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modifications will have to be made to the algorithm as shown in the following section

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